SOUTH LAHONTAN HYDROLOGIC REGION

Revised November 30, 2005

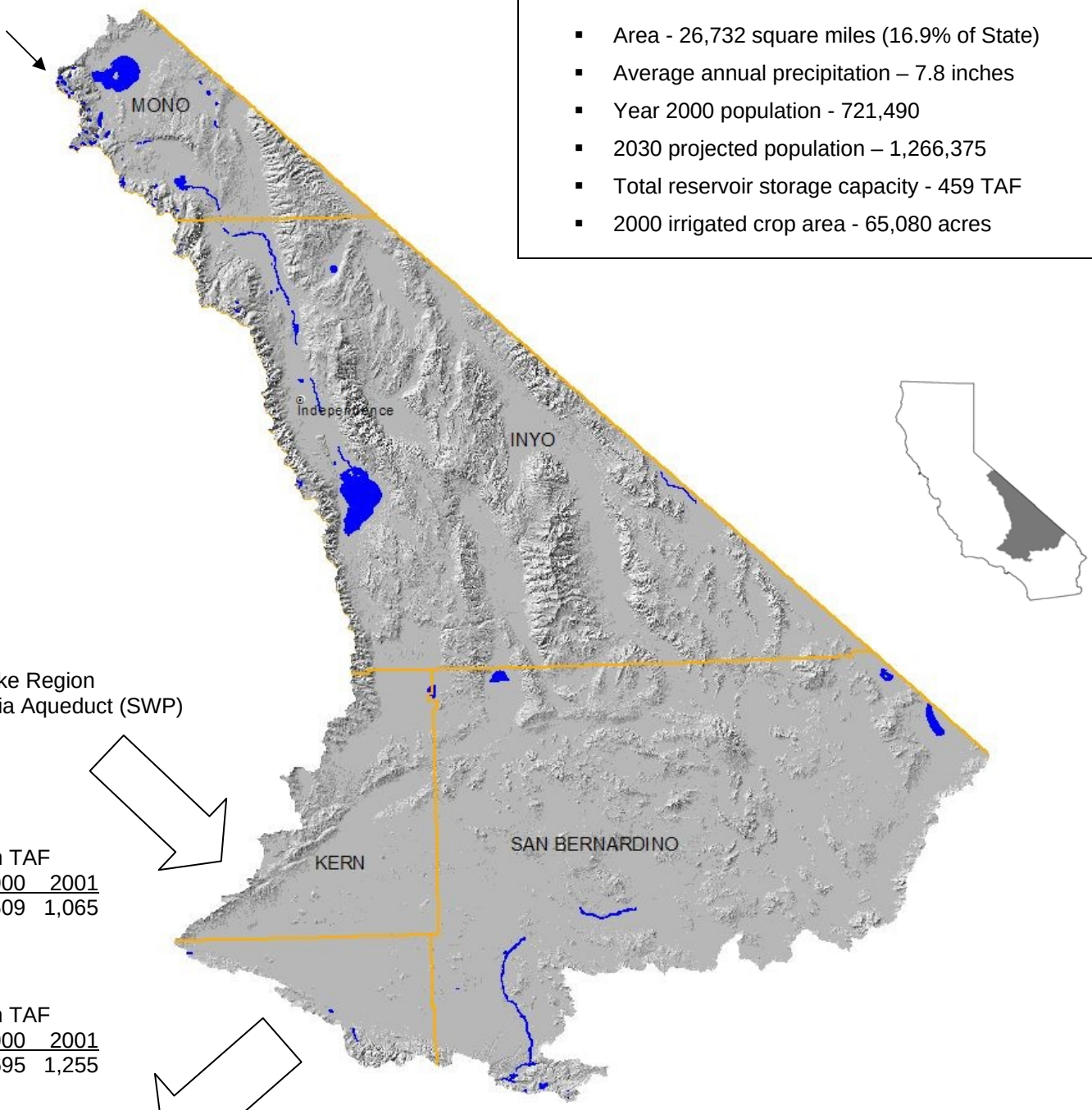
Flow in TAF

1998	2000	2001
1	1	1

North Lahontan Region
Virginia Creek

Some Statistics

- Area - 26,732 square miles (16.9% of State)
- Average annual precipitation – 7.8 inches
- Year 2000 population - 721,490
- 2030 projected population – 1,266,375
- Total reservoir storage capacity - 459 TAF
- 2000 irrigated crop area - 65,080 acres



Tulare Lake Region
California Aqueduct (SWP)

Flow in TAF

1998	2000	2001
917	1,509	1,065

Flow in TAF

1998	2000	2001
1,286	1,695	1,255

South Coast Region
Los Angeles Aqueduct
California Aqueduct (SWP)

SOUTH LAHONTAN HYDROLOGIC REGION
WATER BALANCE SUMMARY – TAF

	Water Year (Percent of Normal Precipitation)		
	1998 (188%)	2000 (66%)	2001 (91%)
Water Entering the Region			
Precipitation	20,409	7,476	9,741
Inflow from Oregon/Mexico	0	0	0
Inflow from Colorado River	0	0	0
Imports from Other Regions	918	1,510	1,066
Total	**21,327**	**8,986**	**10,807**
Water Leaving the Region			
Consumptive Use of Applied Water * (Ag, M&I, Wetlands)	259	321	316
Outflow to Oregon/Nevada/Mexico	0	0	0
Exports to Other Regions	1,286	1,695	1,255
Statutory Required Outflow to Salt Sink	80	67	58
Additional Outflow to Salt Sink	111	150	126
Evaporation, Evapotranspiration of Native Vegetation, Groundwater Subsurface Outflows, Natural and Incidental Runoff, Ag Effective Precipitation & Other Outflows	19,745	7,055	9,352
Total	**21,481**	**9,288**	**11,107**
Storage Changes in the Region [+] Water added to storage [–] Water removed from storage			
Change in Surface Reservoir Storage	72	-8	-1
Change in Groundwater Storage **	-226	-294	-299
Total	**-154**	**-302**	**-300**

Applied Water * (compare with Consumptive Use) * Definition - Consumptive use is the amount of applied water used and no longer available as a source of supply. Applied water is greater than consumptive use because it includes consumptive use, reuse, and outflows.	480	612	570

Water Entering the Region – Water Leaving the Region = Storage Changes in Region

****<u>Footnote for change in Groundwater Storage</u>**

Change in Groundwater Storage is based upon best available information. Basins in the north part of the State (North Coast, San Francisco, Sacramento River and North Lahontan Regions and parts of Central Coast and San Joaquin River Regions) have been modeled – spring 1997 to spring 1998 for the 1998 water year and spring 1999 to spring 2000 for the 2000 water year. All other regions and year 2001 were calculated using the following equation:

GW change in storage =
intentional recharge + deep percolation of applied water + conveyance deep percolation - withdrawals

This equation does not include the unknown factors such as natural recharge and subsurface inflow and outflow.